Farmers Federation News

Vol. XXXIV, No. 9 MAY 1954

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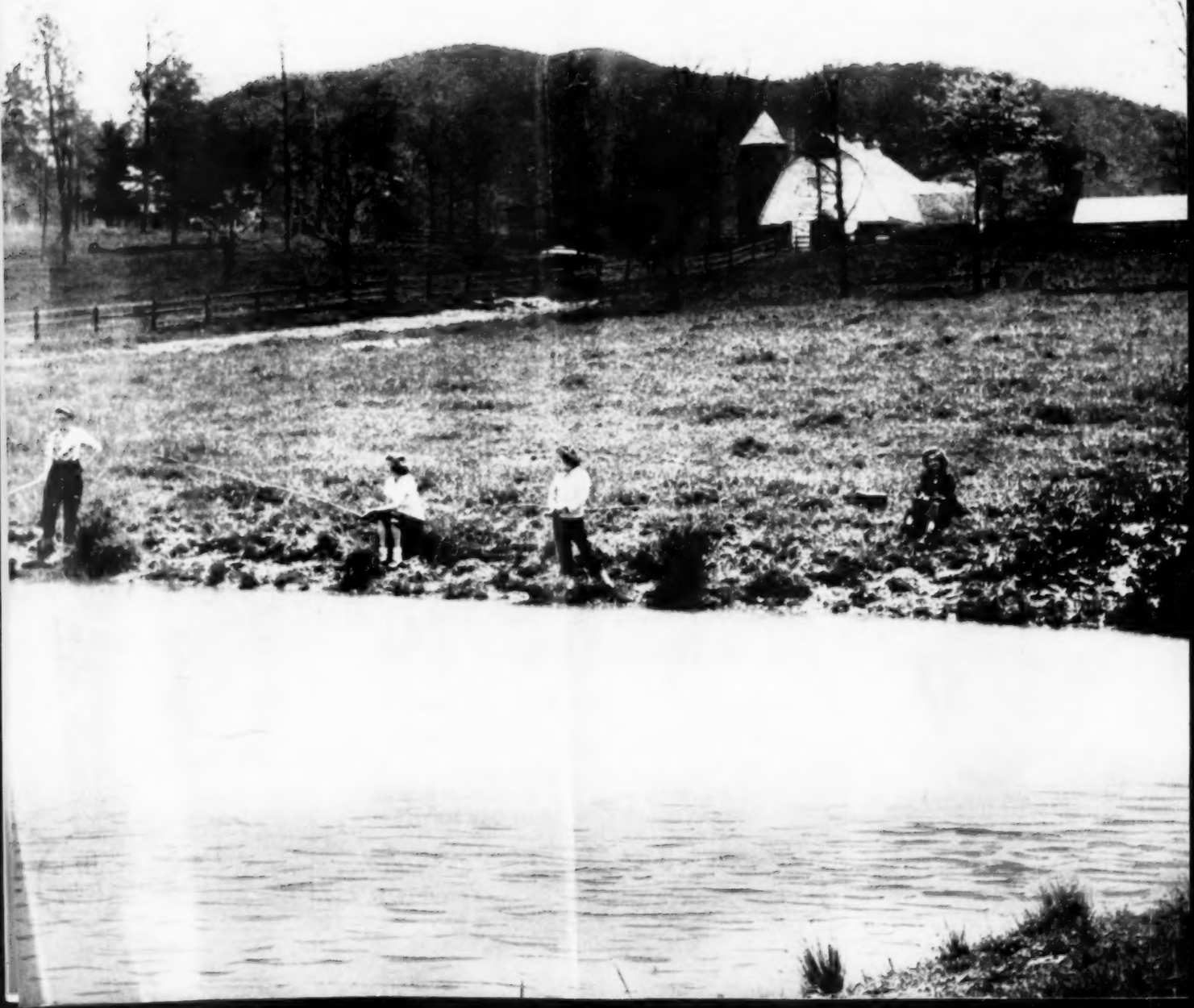
IRRIGATION and WATER SYSTEMS EDITION



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Published Monthly By The Farmers Federation News, Inc.
131 Roberts St. — Asheville, N. C.

Robert G. Beard, Editor James G. K. McClure, Assoc. Editor
Rev. Dumont Clarke, Lord's Acre Editor

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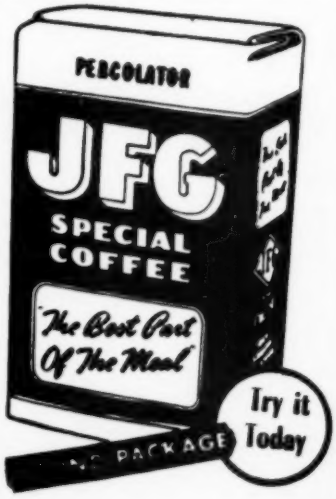

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For The Communists Worry About

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The list of bulls servicing this area from the Indianapolis stud has just been completed. One can see right away that higher milk production will be available in this area than heretofore. Combining these studs enables the American Breeders Service to eliminate 70 bulls, and of course the bulls rejected are those whose records show they transmit less production than the bulls that will be kept. The bulls that will be retained by the American Breeders Service are the top bulls for transmitting high production to be found anywhere. A nation-wide search goes on all the time for these bulls. Guernsey, Holstein, Jersey and Brown Swiss bulls are at the Indianapolis stud. Fourteen of the bulls that will service this area transmit to their offspring over 600 pounds of butterfat or 15,00 pounds of four per cent milk.

This gives us a great opportunity to raise the milk production of our dairy cows in this section. And that is exactly what we will have to do to make money in the dairy business.

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Make Money With Pastures

Pastures are the most important crops on livestock farms. Pasture makes the cheapest beef, the cheapest mutton and the cheapest milk, and many people say the cheapest pork.

Blue grass and white clover pasture runs ah high as 20 per cent protein. You don't need high-priced feed when your cows get all this protein from the pasture. Blue grass should not be grazed too short.

Orchard grass and ladino make a pasture that is hard to beat. We have the soil here in the mountains to make fine pastures, but we are inclined to abuse our pastures—to pasture too heavily and too long.

Pastures must be fed. If we graze heavily, we must fertilize heavily. Take care of the pastures. They are our money-makers.

• • •

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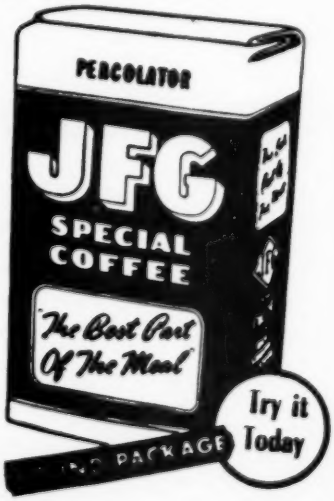
COVER PICTURE

Farm ponds are becoming more and more popular throughout Western North Carolina because they serve so many useful purposes such as irrigation, fishing, swimming and water for livestock.

Pictured on this month's cover is the pond on A. W. Nesbitt's farm at Fairview, North Carolina which was built several years ago. Included among the eager fishermen are Frank Bennett, Mary Helen Patton, Martha Patton and Ann Patton, all of Asheville.

The month of May has been designated as National Water Systems month—a good time to make plans for a new pond, irrigation system, well or water system which can bring all the advantages of a plentiful running water supply right to your own home.



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MR. McCLURE

Dr. R. K. Bliss tells us in an article in **Hoard's Dairyman** that a survey made by Iowa's Health Department found that only 34 per cent of the people questioned had an adequate amount of milk. Of the teen-agers 22 per cent drink no milk at all, and half of those drinking milk receive an inadequate amount.

Now then, coffee tastes good. It is stimulating and it keeps you awake. But with the price of coffee increasing so often, why not use more of a dandy drink produced right here in Western North Carolina that will keep children strong and growing and also improve the health of adults? It is milk, and we have plenty of it. At last we have gotten to the point where we do not have to import week-old milk. We have plenty of milk right here.

There is a lot of talk of a surplus of milk. The trouble is we don't drink enough. If everyone would drink one more glass of milk a day, the milk surplus and the butter surplus would vanish.

So let's drink milk, be healthy and not get jittery about high-priced coffee.

• • •

Watch That 25 Million

No formula has yet been given to the voters of the State of North Carolina for the allotment of the last half of our 50 million dollar Bond Issue for schools. A formula was worked out by the legislature for the division of the first 25 million, and each county knows just what it will get. But no formula has been announced for the division of the balance of the Bond Issue which is 25 million dollars.

It is of great importance that the people in our western counties keep on the alert in this matter. This will be the last State School Bond Issue for some time. Many if not all of our western counties need their fair share of this money desperately. They have worked and sacrificed to build schools and their sacrifice should be rewarded by an equal allotment of this 25 million dollars.

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Mr. Beck has a wife and four children. He is a member of the Lutheran Church. We are glad to welcome him to Western North Carolina.

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"Bill" Reed Resigns

William M. Reed, whom we all know as "Bill", resigned from the management of Skyline Dairies on April 1 to take a position with the Dairy Pak Company. His business headquarters will be Athens, Georgia, and he has been given an extensive territory in which to represent his company.

"Bill" Reed has been with Skyline producers a long time, and our best wishes go with him in his new job.

• • •

Something For The Communists To Worry About

Mr. Thomas J. Watson, Chairman of the Board of International Business Machines, spent a few days in Western North Carolina and spoke to a group of Farmers Federation employees. His operations are world-wide, and he gets reports from all parts of this country and the world.

Mr. Watson is optimistic about business and very optimistic about the future of this country. He gave us some figures which must worry the communists. Citing a report of the Twentieth Century Fund, he told us that the United States, with six per cent of the world's population and less than seven per cent of the world's land area, has 40 per cent of the world's income.

On a per capita basis, the average income is as follows:

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FARM IRRIGATION WILL PAY OFF IN NORTH CAROLINA

Howard Ellis, N. C. State College irrigation specialist, is shown adjusting a line valve which eliminates shutting off the pump while changing lateral line.

by Ed Burks
Dept. of Information
N. C. State College

"It was late in the season and I knew I wouldn't make much tobacco without rain. I went out and bought irrigation equipment to cover 18 acres. I already had three ponds. The equipment saved my crop. In fact I made enough to pay off the cost of the equipment, the cost of the ponds and the labor."

These remarks were volunteered by an Alamance County "overalls" farmer recently at one of the irrigation demonstrations conducted by the Agricultural Extension Service at N. C. State College. Howard Ellis, who gives Tar Heel farmers the low-down on irrigating everything from tobacco to pastures, readily admits that the farmer in overalls did more to boost irrigation as another kind of crop insurance "than I could have done all day."

Whether Ellis and his co-workers in agricultural engineering at State College are responsible, or whether it has been three summer-long droughts in a row, the fact remains that North Carolina farmers are taking to irrigation like ducks to water.

Irrigated Tobacco Acreage Doubled

The number of irrigated tobacco acres has doubled in North Carolina each year since 1951. That year there were about 500, in 1952 about 1,000, last year 2,500. Ellis expects about 5,000 acres to be irrigated this year. Irrigation probably pays the tobacco grower greater returns than any other major crop farmer. Use of irrigation in the production of other crops is not as spectacular as with tobacco, but it is gaining the favor of more farmers every day.

Tobacco is a high-value cash crop with gross values of as high

(Continued On Page 16)

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PROPERLY INSTALLED IRRIGATION SYSTEMS PROFITABLE TODAY AS IN ANCIENT CIVILIZATIONS

The irrigation system above is shown in use on an Irish potato field at the Buncombe County Home, RFD, Asheville. (SCS Photo)

By C. R. Patton
Buncombe County
Soil Conservationist

With all the talk about irrigation these days one would think a brand new farming practice had been discovered. However, irrigation is as old as our oldest civilization. Nebuchadnezzar, the great ruler of ancient Babylon, boasted of his irrigation works in these words: "That which no king before had done, I did—great canals I dug, and lined them with brick laid in bitumen and brought abundant waters to all the people."

In dry climates civilizations rose and fell with the success and failure of irrigation systems. Nebuchadnezzar's irrigation system failed. Babylon died, too, and was buried by the desert sands because the irrigation canals which watered the land that supported the city were permitted to fill with silt.

Supplemental Irrigation Profitable

Here in Western North Carolina we have a fairly abundant yearly rainfall. Yet, almost every year we have hot, dry periods during the spring, summer and fall which seriously injure and curtail our growing crops, pastures and orchards. A dependable supply of water through irrigation will often mean the difference between profit and loss in the production and marketing of our farm products. Application of water to the land during these dry periods we call "supplemental irrigation." We are supplementing our natural rainfall.

One of several new sprinklers made available to farmers this year.

Supplemental irrigation may be practicable for you if you (1) are growing valuable crops on productive land (2) have an abundant supply of good water, and (3) understand the need for and apply all

(Continued On Page 13)

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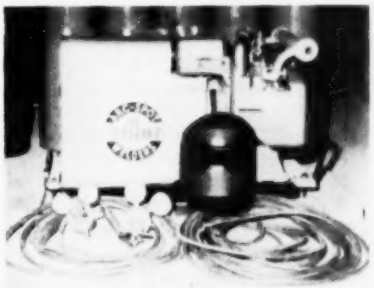

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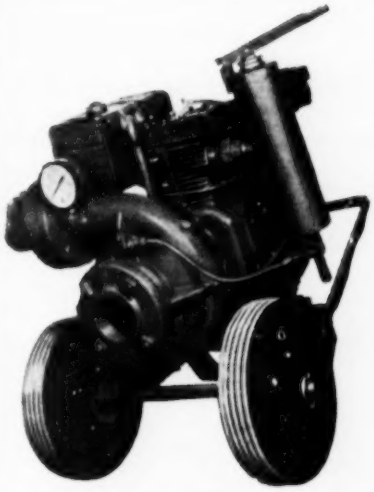

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Remember Future Needs When Considering Electric Water System

By C. F. Craigie, Jr.
National Association of Domestic and Farm Pump Manufacturers

All the water you want, when and where you want it, is the ultimate goal with the installation of a modern electric water system.

The word ultimate is used with a purpose, since to many farmers it may seem like something of a tall order to have a well drilled, install a pump and pressure storage tank, run water lines to the barn, install a sewage disposal system, and buy the numerous appliances that go along with a water system—all at the same time. Few budgets these days are that elastic.

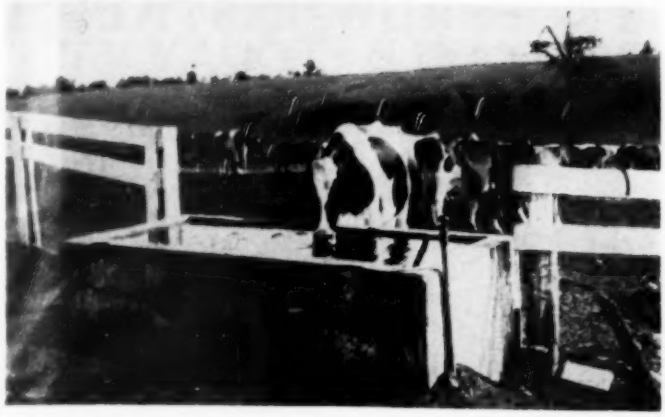
However, without losing sight of the ultimate or final objective—a farm property on which running water is put to every use assuring better living and more profitable production—it should be pointed out that a complete running water system does not have to be installed all at once. It can be put in by degrees, without causing an undue financial strain.

The major investment in the system will be made at the outset—for developing a water source and purchasing the necessary pumping equipment. Like any other major investment for better living, the cost should be reckoned on an annual basis, spread over the estimated normal life span of the equipment.

Water System Economical & Sound

In the case of a water system, the pump, which is its heart, may be expected to last anywhere from 15 to 30 years, giving dependable day-in, day-out service with a minimum of repair and maintenance. Figured on this basis, it will be seen that a water system is one of the most economical and sound investments a farm family can make.

Actually, many a water system has paid for itself completely within a few years of installation out of the profits from increased production. Operating expenses could hardly be more reasonable—the cost for electrical power to pump 1,000 gallons of water a day wherever it is needed around the farm and in the farm home is figured in pennies.



Dairy cattle, whether in the barn or in the pasture, need plenty of water to drink—and whenever they want it. A modern electric water system makes it a simple job to pump all the water necessary for cattle directly into a pasture watering tank of the type shown.

There are many sources available to the farm family seeking assistance in financing an electric water system—the FHA, banks, and various loan organizations, to name a few. Water systems dealers usually offer term-financing plans, with payments spread out for periods of varying length.

What are some of the things to be considered in planning and laying out a water system? The most important thing to keep in mind at every stage in planning is the future. Once a family has the advantages of running water for the first time ,it is surprising how fast it discovers new uses for water.

A pump of relatively large capacity may seem too large at first, when not all of its reserve power will be called into play. But, sooner or later it will be, as more and more lines are extended to provide a progressively more complete water system for the farm home and its various outbuildings.

Once the pump and storage tank have been chosen, the next step is

(Continued on page 18)

VERY LOW. Power Cost is just one feature of Red Jackets amazing new Centri-jet Water Pumping Systems

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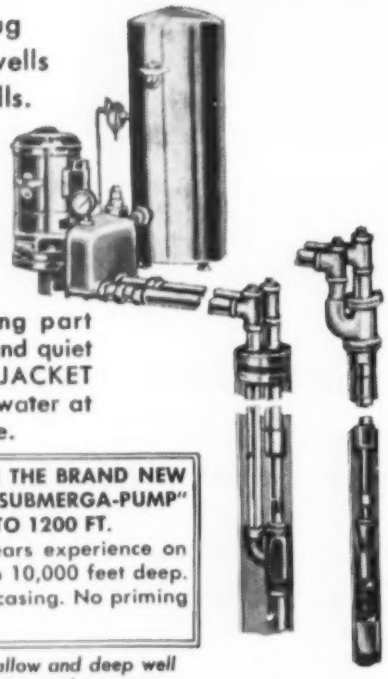

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Running Water — Greatest Blessing Of Modern Farm Life

By Herbert C. Angster
National Association of Domestic and Farm Pump Manufacturers

The farm family accustomed, but never reconciled, to the back-breaking and endless task of hauling water by hand for livestock and use in the home regards an electric water system, once installed, as something in the nature of a miracle-worker.

And no wonder, for running water under pressure completely revolutionizes living on the farm. With a pump and storage tank to circulate all the water needed to various faucet outlets in the home and around the farm, the family at once enjoys better health, greater convenience and enjoyment in daily living, and a higher income from farming, for running water under pressure increases production of meat, milk, butter, poultry, and eggs.

One farm housewife recently expressed her reaction to having running water at the turn of a faucet this way: "With plenty of running water, we now enjoy the convenience of a new bathroom, modern kitchen, back porch shower, automatic water heater, a water softener, automatic clothes washer, under-the-sink food waste disposer, and other electrically-powered appliances requiring water for their operation. So long as we continued to pump and haul water by hand, these aids to better living were, of course, denied to us."

Running water—for the kitchen sink and home bathrooms—is the convenience of modern living most eagerly desired by the farm wife. A modern electric water system provides plenty of water and plenty of pressure to circulate it wherever needed around the farm and in the farm home.

If the convenience of running water under pressure is a delight to the farm wife, it is no less appealing to her hard-working farmer-husband. For him, running water means the end of lugging water for stock, poultry and other needs around the farm. It means a reduction in the time required to produce cash crops—and larger crops at that, yielding a greater profit.

Running Water Saves Time And Money

A few statistics will shed revealing light on the importance of running water on the farm from an economic standpoint. A survey made on 108 farms recently disclosed that before automatic water systems were installed the families were spending an average of 77 ten-hour days during the year doing nothing but carrying more than 138 tons of water for home and farm use. After complete water systems were installed with outlets wherever needed, the 108 families surveyed found that they were able to save a substantial amount of money that had been

(Continued on page 14)

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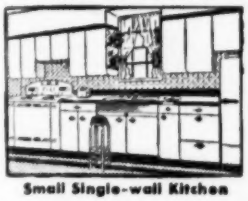

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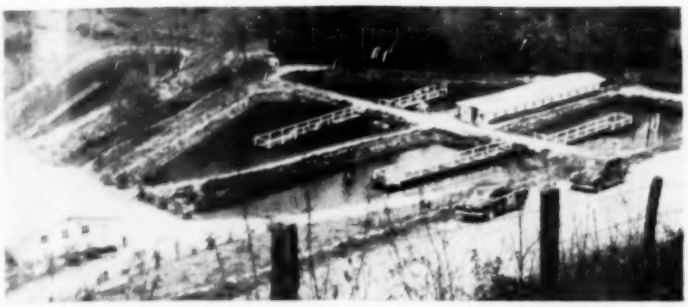
Enlarged Private Trout Farm Meets Growing Fish Demand

Two of the largest and most modern private commercial trout hatcheries are in full operation in Jackson County where the Cashiers Valley Trout farms, featured in the May 1953 NEWS and now composed of two separate divisions are stocking farm ponds all over Western North Carolina and surrounding states with rainbow, brook and brown trout.

"Trout for stocking purposes are becoming more and more popular, and to meet the growing demand we leased the former Blue Ridge Trout Pools on N. C. Highway 107 which gives us an excellent opportunity to show the public how clean, healthy trout are raised," explained Bill Holley, Manager of the farm.

Visitors Welcome at New Pools

The new hatchery is located eight miles south of Cashiers along Highway 107 where passing motorists can easily stop and look over the trout pools and facilities used for rearing trout.



An overall view of the new Cashiers Valley Trout Farm on N.C. 107 shows five of the six new trout pools in operation.

Two streams are the water sources for the six new trout pools which are now stocked with brook, rainbow and brown trout.

The hatchery on U.S. 64 is closed on week-ends but visitors are always welcome at the new pools on N.C. 107.

Over a million fish are handled between the two hatcheries. All three varieties are now available at both hatcheries.

Elmer McCall, trout farm worker empties some brook trout into their new home — a farm pond near Highlands, N. C.

New Expansion Plans

Has the Cashiers Valley Trout Farm stopped expanding? Not by a long shot. At present two new pools, four raceways and two earth-

(Continued On Page 16)

CASHIERS VALLEY
TROUT FARM
CASHIERS, N. C.

RAINBOW, BROOK AND BROWN TROUT

Reared In Spring-Fed Mountain Stream and Now Available For Stocking In Public And Private Waters.

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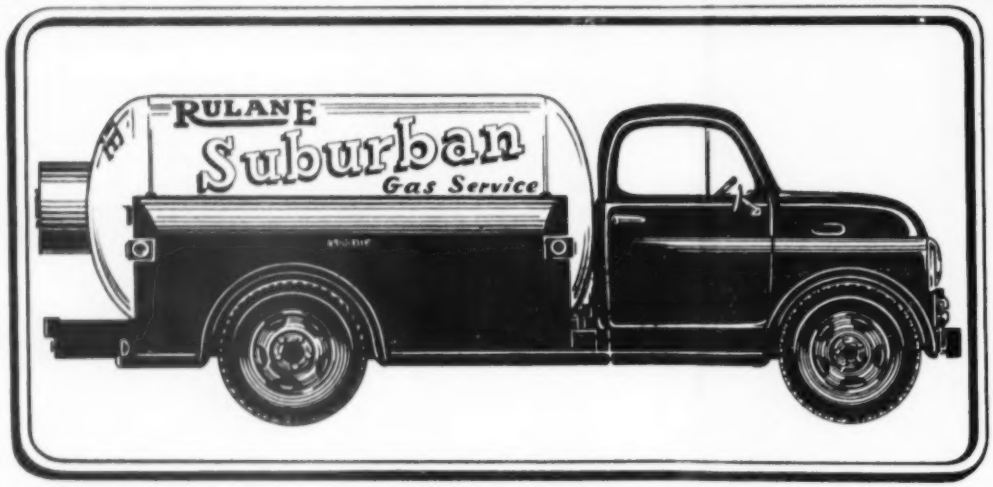

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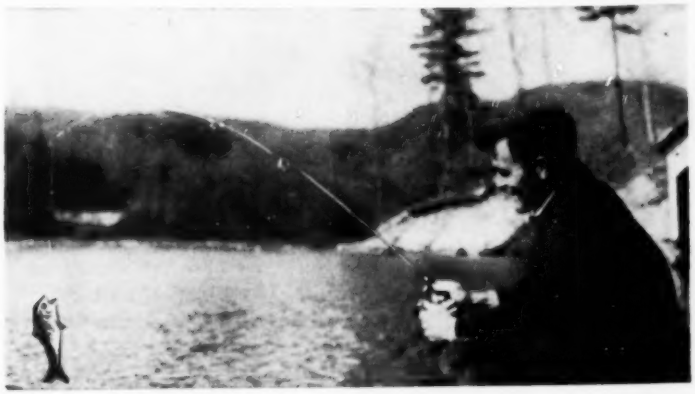

Bill Holley, manager of Cashiers Valley Trout Farm, pulls in a trout from one of the many pools stocked by the farm.

Chow time at Cashiers Valley finds trout scrambling for a specially prepared diet.

Another load of fish being delivered to a W.N.C. farm pond. The specially designed truck can transport the fish many miles so that they arrive in healthy condition.

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Woman's Page

by Mrs. S. C. Clapp

Spring Cleaning for Home, Body and Soul!

As we drive along the highways, we see evidences of spring cleaning. Nature always does a good job of spring cleaning. The trees and shrubs drop their old leaves, the rains scrubs and washes the rocks and the ground, and the old trash of winter seems to disappear under a green coat of grass and everything begins to freshen up about us.

This is the time to do a thorough job of house cleaning to make the home look cleaner. Thus we know we have cooperated with nature in trying to clean up.

The best way to clean up is to get rid of the unnecessary things which clutter up the house. Clothes that some one else could wear, may hang in a closet for moths to destroy. The attic and basement may be full of discarded pieces of furniture. Magazines and papers accumulate very quickly and then finally are thrown away. Wouldn't it be better to gives clothes, furniture and magazines away, while some one might enjoy them?

We know that material disorder can cause one to feel smothered, and we know that mental clutter makes one feel the same way. We should clean our mental houses much more frequently than we do the ones in which we physically reside. It is amazing what one will find to throw away and clean out if one stops to think. There is resentment, fear, anger, envy, hatred, jealousy and intolerance which should be scrubbed and cleaned out of our minds. Our minds need a spring cleaning to enjoy the clean home we make.

Not only one's home and one's mind can become cluttered but also one's time may become cluttered. One may join clubs, lodges, classes, groups of all kinds, attend parties until there is no time for one's own thoughts. Every woman needs some quiet time so she can relax, think and meditate while enjoying silence. Too much clutter of one's time will lead to confusion and if one finds that happening, it

(Continued on page 16)

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Swain County
By S. R. Swanson

The explosion of Hydrogen bombs in the Pacific has caused a chain-like reaction of fear in the minds of people around the world. The dramatic effect of the explosions caused a realization that the use of such weapons in another war may mean the end of our civilization and millions of people. Our realization of the destructive force of the atom may cause us through fear to find ways to avert war in which it might be used.

While we deal with the Hydrogen bomb problem and the power of the atom, however, another problem of probably greater magnitude confronts us. It is more subtle. Like the radio-active energy that eats at the bones and marrow of Japanese fishermen, caught in a recent H-bomb experiment, it is partially hidden. It is the explosive force of the raindrop as it falls on unprotected fields in North Carolina. It is the devastating effect of flowing water on neglected land in West Virginia. It is the shriek of a merciless wind in drought-stricken Texas moving thousands of tons of soil. It is a combination of mighty forces known as Soil Erosion. Just a bit here and a bit there as it insidiously moves more soil to the ocean in a year than the energy of a thousand Hydrogen bombs could move. While we wait, watch, and wonder, it stalks across our land eating at the core of our existence.

The actions and moods of Soil Erosion are not always the same. At times they are gentle and mild like a child stealing a cookie. Again they are fierce and startling like a giant hurricane or the explosion of the Hydrogen bomb. But through the years it has deadened our sense of its nature and we find our land defenseless against its devastating force.

Some day, perhaps when it is too late, the saddest words of all will be: we could have done better, but we didn't.

We watched and guarded the Hydrogen bomb while Soil Erosion washed and blew our civilization into the sea.

Yancey County
By Lewis W. Dameron

Ralph Ray of Cane River recently drained approximately 12 acres of bottom land by tile and open ditch drainage. By draining this land, Ray has been able to change marginal land which was suitable only for pasture and meadow in dry seasons into first class bottom land. Personnel of the Yancey District assisted Ray in surveying necessary drainage lines.

Survey work has been completed on an irrigation system for Jamie

(Continued on page 14)

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Garden Notes

By Mrs. C. C. Proffitt - Asheville Garden Club

This is the month when the April showers have brought forth May flowers and the peak of spring bloom is reached. It is a joyous month in the garden when the weather has become settled, and there is so much to see and do.

Although it is a month of feverish activity, we should not let ourselves get too busy to enjoy the beauty of our own gardens and those of our neighbors. Especially, should we take time to visit at least one Iris garden, the queen of flowers for the month, and become better acquainted with the many lovely new varieties. Take pencil and pad along to jot down names of those you particularly liked, so that you may include them in an order later.

Many Iris growers begin listing special offers soon after the blooming season, which is a good idea, while the varieties are still fresh in your mind. It is also a good time to make changes in your Iris planting. This should be done soon after the blooming season before you forget where the different colors were.

When we think of the many jobs to be done this month in the garden, we hardly know where to start. Perhaps we should first, finish sowing outdoors all annual seeds as Zinnias, Marigolds, Nasturtums, etc. that were not put in last month and attend to the seedlings already up. These will need thinning out and transplanting, at least once before putting in their permanent beds. In setting out Aster seedlings, be sure to mix some tobacco dust in the soil to repel the root aphids or mulch with tobacco stems.

As soon as the annual seedlings are out of the cold-frame by the end of the month or 1st of June, it is a good time to sow perennial and biennial seeds rather than wait until late summer as usually suggested. Late spring conditions with its moisture and coolness are more favorable for germination and you will have larger plants to put out in the fall. Pansies, though are an exception, as they are better planted in late summer.

May is the month for setting out many kinds of plants, annuals as well as perennials, bulbs, corms, and tubers, since it is the last call before summer sets in and it becomes late for planting most things.

One of the "must" jobs to be done early this month is to get the Chrysanthemums, either old divisions or new plants, put in. They prefer a bed to themselves, thoroughly spaded and manure added, with an additional handful of superphosphate worked in each hole before setting plants in. Plants are usually spaced between 18 to 20 inches apart, depending on the varieties.

Finish planting all summer-flowering bulbs and tubers like Dahlias, Tuberoses, Montbretias, Caladium, Peruvian Daffodils, (Ismene) Cannas, Tuberous Begonias and Gladiolus — with successive planting of the latter at 2 weeks intervals into June.

Early bulbs that have finished blooming should be fed, and foliage allowed to remain until it dies down, as the buds for next season are formed from the food and energy supplied by the leaves.

Since most plants in the garden now are actively growing they will need regular feeding, watering, cultivating and the taller varieties staked before plants fall over and get ill-shaped. Then, the all important job of pests and disease control should be started in earnest and kept up at regular intervals all summer.

There is a splendid article in the May 1953, Flower Grower on "Better gardening with Chemicals" which gives a thorough discussion of all the various new chemical products on the market as well as the old reliables, about which gardeners need to be better informed.

Space does not permit a discussion here, but we will give this list of pests to watch out for and their control as given by one writer. Aphids (use, Lindane, Rotenone, Pyrethrum or Black-leaf 40); ants (Chlordane): white fly (Lindane); thrips (D.D.T.); Black-spot of roses—(Fermate or Dithane); Bagworm on evergreens (Arsenate of Lead); and scale (oil-emulsion).

One final reminder, be careful about putting house-plants that have been indoors all winter, in full sun when you first take them out ,as they scald easily when so tender. Most house-plants with the exception of African violets, Philodendron and Ivey benefit by spending the summer outdoors in a protected area.

Kindness will open a door when all other keys fail.

Success is nothing but a good idea and hard work.

ALUMINUM BECOMING MORE POPULAR AS BUILDING MATERIAL

If visitors to the Washington Monument in Washington, D. C. could inspect the tip of it, they would find an aluminum pyramid cap that has given satisfactory service, withstood the ravages of weather and not needed repairs for over 60 years.

Farmers and builders everywhere will be interested in this striking example of aluminum's permanence and durability. More and more farm buildings are being equipped with aluminum for many reasons.

Aluminum's Advances

Probably aluminum's biggest advantage is that it cannot rust and does not require protective painting. It cannot decay because it is immune to mildew and fungus attacks. It has been shown that industrial atmospheres affect other metal more than aluminum.

By reflecting up to 95% of all radiant heat, aluminum keeps interiors about 15% cooler and maintains this reflectivity indefinitely.

Other advantages of aluminum include its fire-resistivity, its economy which results from savings on shipping and labor costs, its light weight, its strength, its resistivity to rodents and termites and the ease with which it can be cut and formed.

Aluminum products have been engineered to provide sufficient strength when used as recommended.

Beauty Through Embossing

One of aluminum's outstanding advantages is its beauty which is due to a gray oxide film developed from weather exposure. Embossing along with aluminum's architectural lines has made it popular with farmers, industrialists and home owners throughout the country.

Aluminum roofing is available in corrugated or other conventional forms or as flat roofing sheet. It is stocked by dealers in 6, 8, 10 and 12-foot lengths along with the necessary aluminum roofing accessories.

PROPERLY INSTALLED IRRIGATION

(Continued From Page 5)

needed soil conservation measures before attempting to irrigate.

The most profitable results from irrigation have been from crops with a high return per acre, such as tobacco and truck crops, and those crops hurt worst by drought. Many livestock farmers say that irrigation is profitable for good pastures and alfalfa. In a year like last year, irrigation can mean the difference between two poor cuttings of alfalfa and four or five good cuttings.

In Buncombe County the Federal Crop Insurance Corporation paid 146 farmers an average of $100 a piece for actual losses on their 1953 tobacco crop due to drought. On any of these farms where irrigation could have been used, these losses would have been prevented. Instead, normal crop yields would have paid the producer his normal profits. On farms where tobacco was irrigated, yields were higher and profits exceeded those of so-called "normal" years.

Irrigation Tips

Irrigation takes a lot of water. If you want to irrigate, find out ahead of time how much water you will need and how much you have. Supplemental irrigation for a 10-acre cornfield, with three applications during the summer, would require about 5 acre-feet of water. You would pump dry a pond of two acres if it were 8 feet deep.

If the water is to come from a stream, measure the flow at low stage to find out just how much water you can depend on.

You should not attempt to irrigate until your land has all the necessary conservation treatments. Suppose you were to irrigate crops on bare sloping land having no terraces or contour strip cropping or any protection against erosion. You saturate the land and then a heavy rainstorm comes that night. You know what would happen! Or suppose you irrigate bottom land that sometimes becomes too wet. Then the rains come, too, and there is no tile or open drains to take away excess water. You know the answer to that one.

Irrigation water should be applied like a soft, gentle rain.

(Continued On Page 17)

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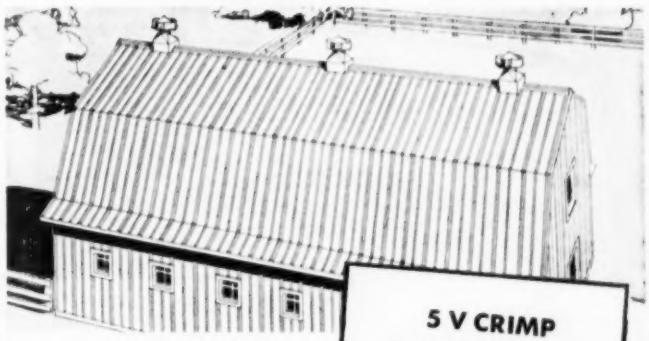

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Farmers Federation

RUNNING WATER BLESSING

(Continued from page 7)

going to pay the labor of extra hired hands to keep production at a satisfactory level. Running water quickly boosted production to new heights, creating a substantial increase in profits.

Many Uses For Running Water

When pumped to barns and sheds where livestock are quartered, running water assures that cattle and hogs will fatten up more quickly to bring a higher price in the market. Poultry flocks, likewise, will produce more eggs when hens have all the water they require. Actual figures show that egg production increases 8 to 10 per cent when flocks have running water in laying houses and yards. Milk production increases 10 to 20 per cent, and 6 to 12 percent more butterfat is produced when dairy cattle are provided with running water.

Hog raisers have found that fall pigs make gains at from 15 to 17 per cent lower feeding costs when supplied with all the warm water they can drink, as compared with hogs which have only cold water to drink. An electric water system permits the use of a tank water heater, providing correct temperature water for fall pigs.

Garden crops which provide fresh green produce for the farm table can be irrigated to assure maximum yields, once an electric water system has been installed.

From a dollar and cents standpoint, it is plain to see that the investment in a modern electric water system is one of the soundest a farm family can make these days.

Running water is a wonderful convenience when it comes to the daily cleaning of equipment, buildings, utensils in the milk house, the barn—in fact, for all the regular maintenance chores around the farm.

A completely equipped water system means a well, an electric pump, usually a pressure storage tank, and piping to circulate the water to as many outlets as desired in farm buildings and in the farm home. It is a good idea to have a number of strategically placed frost-proof hydrant outlets located where they will be most effective in fighting farm fire, should that emergency arise. Protection against sudden and unexpected fires is one of the greatest benefits provided by a modern electric water system. In this connection, the pump should be capable of supplying 500 gallons of water an hour, the minimum to assure reasonable protection against the ravages of fire.

Gradual Installation

The installation of water systems can be planned in stages, which makes it easier on the budget. First, the well, pump, storage tank, the piping are installed to service the most essential outlets, perhaps in the barn, and milkhouse, as a starter, with an additional outlet in the farmhouse kitchen. Next, additional heaters for livestock watering troughs, softeners, secondary pumps, and storage reservoirs can be added to the system. And lastly, sufficient additional outlets should be provided to fully meet all water needs in farming and equip the farm home with a completely modern kitchen, bathroom, and first-floor wash room, located near the kitchen if possible as a convenience to the men coming in from the fields.

A water systems dealer is the expert who should be called in for advice on installing a new water system, or extending one already installed for greater service and convenience.

Of utmost importance is the accurate determination not only of maximum current needs for water, but also probable future needs. Once running water under pressure is available, there is almost no limit to the needs that will be found for it. Too often, a farm installs a system that does very well for a while, but eventually proves inadequate because sufficient thought was not given to the expansion factor—the normal rate of increase in water use, both for farm and family. When a water system is correctly sized, the question of obtaining adequate capacity becomes the primary consideration.

The future belongs to those who plan for it, a statement which applies particularly to those who earn their living from the land. The installation of a modern electric water system is the soundest step a farm family can take to assure a more prosperous, healthier and happier future for many years to come.

SCS DISTRICT NEWS

(Continued from page 11)

B. Stamey of Jacks Creek. This survey included: elevation readings to determine the size of pump needed, survey of soil type to know how fast the soil will take water, and the measurement of the stream flow to determine the supply of water available. Stamey hopes that

(Continued on page 15)

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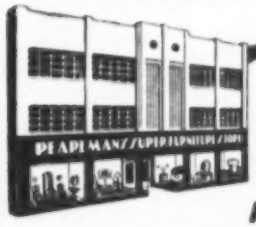

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Dairyman of The Month

Standing by their home settled in the hills near Green Mountain, North Carolina are Isaac Thomas and his wife, Hattie. One of Thomas' Guernseys—called by many the "cleanest cows in the county"—shows evidence of the fine care and treatment he gives his herd.

Green Mountain, North Carolina is the home of May's Dairyman of the Month, Isaac Thomas, whose herd of six Jerseys and 14 Guernseys has been called "the cleanest in Yancey County" by many dairymen.

Mr. Thomas was liming a field with a pair of mules when your editor dropped by for a visit. He finds them a lot more practical for working the steep slopes on his farm.

"The drought has been bad for the past two years but we've had a lot of good rain this spring, and things look good for the summer," he remarked.

A dairyman with five years experience, he finds his herd now averaging 315 pounds of Grade A milk a day. In addition to a trench silo, he has a brick silo which he built himself in August 1953. He is presently using Co-Op 16% milking ration for dairy feed and claims it's the only feed he's used which didn't reduce his milk production.

Mr. Thomas has about 155 acres in alfalfa, orchard grass, ladino and fescue and cultivates a tobacco allotment totaling almost two acres.

The 80 year old house where he was born and raised still stands and has a grapevine running completely around it, a vine that Mr. Thomas referred to as "the bearingest grapevine you ever saw."

Last year he built his own home for his wife, Hattie, and their four children—Nellie Sue, Ethel Lou Charles and Arthur J.

May's Dairyman of the Month is one of many Yancey dairymen who are making the county famous for high quality milk production.

SCS DISTRICT NEWS

(Continued from page 14)

another dry spell will not occur. However, if it does, he will have the necessary information on hand in regards to the size and type of irrigation system that he will need on his farm.

McDowell County
By L. B. Hairr

When dust storms blur the sun and silt choke our streams, there is danger ahead. According to Donald and T. W. Anderson of Marion, Route #1, it's time for everyone to act.

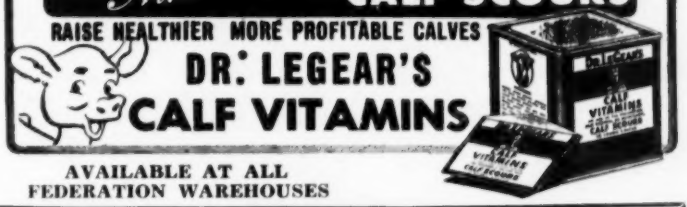
By using a combination of good practices, soil losses can be stopped, E. T. Lawing explains. First, you must slow down run-off water and make most of it soak in the ground. Contour strip cropping, that is, alternate strips of corn or grain and hay, will do this. In some cases, terraces with sod waterways will be most suitable. The use of manure, lime, and fertilizer, as necessary, to produce a growth of all crops helps protect the land

(Continued on page 16)

STOP *Nutritional* CALF SCOURS

RAISE HEALTHIER MORE PROFITABLE CALVES

DR. LEGEAR'S CALF VITAMINS



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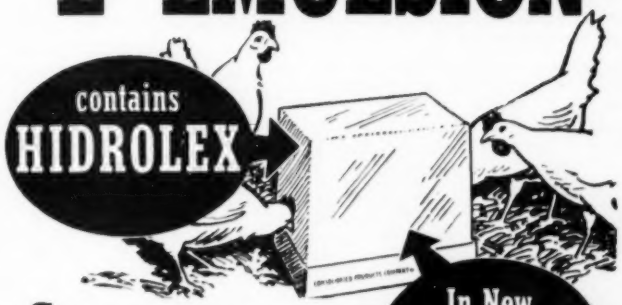

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WOMAN'S PAGE

(Continued From Page 10)

as time to clean house!

Alexander Pope declared that "order is Heaven's first law." So it is with our homes, our minds and our time cleared of clutter and put into order makes freedom ours. And we have a quotation in one of our text books in Home-making that is so true to our lives and so dear to the heart of every home-maker—"The Beauty of the Home is Order."

Did You Know?

That plants and bowls of fresh fruit in the house counteracts odors?

That it is easier to empty ash-trays into paper bags because it keeps the ashes from scattering? It saves the waste basket too!

That if ink is spilled, take it up with a blotter first and then rub the spot with buttermilk or lemon?

That if chewing gum gets on clothing, rub it with ice? This causes the gum to harden and then it can be rubbed off.

Do you have enough fresh milk or do you have to use canned milk at any time? Below are listed three excellent recipes, using canned milk which are recommended by the Evaporated Milk Association. These are plain, familiar foods with an unusual flavor.

Creamy Salad Dressing

½ cup salad oil
½ cup evaporated milk
¼ cup vinegar
1 teaspoon salt
Few grains pepper

Measure salad oil into a pint screw top jar which has a tight-fitting cover. Add remaining ingredients. Cover tightly, then shake vigorously until dressing is creamy and smooth, about 1 minute. Chill until ready to use.

Try this with shredded cabbage or with cucumbers chopped very fine—this is wonderful made with sour cream instead of evaporated milk, if cream is available.

* * * * *

Meat Loaf
(4 to 6 servings)

1 pound ground beef
½ pound ground pork
⅓ cup fine dry bread crumbs
¼ cup chopped onion
¼ cup shredded raw carrot
1½ teaspoons salt
⅛ teaspoon pepper
1 egg
⅔ cup evaporated milk

Place meat, bread crumbs, onion, carrot, salt and pepper in medium size mixing bowl. Beat egg. Add milk. Add to ingredients in bowl and mix lightly but thoroughly. Pack lightly into a loaf pan 8¼ x 4½ x 2¾ inches. Bake in moderate oven (350° F.) 1 hour and 15 minutes.

This meat loaf is unusual with the shredded carrots in it—Serve warm or allow to cool and serve as a sandwich filling.

* * * * *

Whipped Fruit Gelatin

1 No. 303 can fruit cocktail
1 package lime flavored gelatin
3 tablespoons lemon juice
1 cup cold evaporated milk

Drain syrup from canned fruit cocktail. Measure syrup, then add sufficient water to make 1 cup. Heat this liquid to boiling. Pour over gelatin in a medium size mixing bowl and stir until gelatin is completely dissolved. Add lemon juice and set aside to cool. When gelatin is about as thick as unbeaten egg white, whip with a rotary beater until it is light and fluffy. Add the cold milk a little at a time, whipping after each addition. Save a few colorful pieces of drained fruit for garnish. Fold remaining fruit lightly into whipped gelatin mixture. Spoon into 8 sherbet glasses. Garnish top with fruit pieces. Place in refrigerator to chill and become set, about 2 hours.

Note: If using a larger can of fruit cocktail, drain and use 1 cup of the syrup, heated to boiling, for dissolving gelatin. Use 1 cup of drained fruit for folding into the whipped gelatin mixture and ¼ cup fruit pieces for garnishing servings.

Miss Anne Benson Priest, Home Agent of Transylvania County suggests using a No. 2½ can of crushed pineapple and lemon flavored gelatin for variety in making the whipped fruit gelatin. This can be served as a salad instead of a dessert.

SCS DISTRICT NEWS

(Montinued From Page 15)

by providing better cover, he points out. Lawing says very little soil leaves his fields when it rains, because it is held by a combination of these and other soil conservation practices.

The best way to dry up a wet area on your farm is to ditch it, according to W. W. Wall of Marion. Wall constructed several hundred feet of drainage ditches through a wet marsh area on his farm recently. After he used ditching dynamite in constructing the ditch and spreading the mud, he reported a nice ditch with sloping banks.

TROUT FARM MEETS

(Continued From Page 8)

en pools are being constructed which will make Cashiers Valley just about the largest private commercial trout hatchery east of the Mississippi and south of Maryland.

Trout are available from 1-2 inches in length to full grown beauties 9-10 inches long, which are ready for a frying pan. Large fish will be available for the next few months.

N. C. IRRIGATION WILL PAY

(Continued From Page 4)

as $2,000 per acre. But this is not all profit. Labor, fertilizer, raising the plants in a plant bed and protecting the crop from diseases and insects represents a considerable per acre investment. The difference between a poor crop and a good one often amounts to $500 or more.

Proven Profits

What will irrigation do for tobacco by way of increased quality and quantity? In cooperative tests at the Oxford Tobacco Test Farm, N. C. State College Agricultural Experiment and USDA researchers found that in 1951, 1952 and 1953 "very significant yield increases were obtained by irrigating tobacco." In 1951 the per acre yield was boosted 280 pounds; in 1952, only 90 pounds; in 1953, some 470 pounds.

The "heart of the matter" is, of course how often such increases

(Continued On Page 17)

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PROPERLY INSTALLED IRRIGATION

(Continued From Page 13)

Sprinklers are selected to apply water at a rate no faster than the soil will absorb. This rate of insoak is affected very definitely by the way you manage your land. Insoak is increased by wise soil conservation treatments.

Irrigation Systems Hand-Tailored For Each Farm

Before you purchase irrigation equipment, obtain the services of a qualified and experienced person to help you design a system for your farm. There's no such thing as a "packaged" irrigation system. Each farmer must have a design for his soil, his crops, his slopes and his water supply. The irrigation system must be hand-tailored for each situation. Technicians of the Soil Conservation Service are available to provide planning services and information on water requirements for soils and crops. County Agents will be glad to assist you with irrigation problems. Some concerns that sell irrigation equipment have qualified engineers who will help you plan your irrigation system.

Nebuchadnezzar's irrigation system failed when soil conservation was lacking. When basic conservation treatments are applied first, a soundly-engineered, intelligently used irrigation system is one of the best forms of crop insurance Western North Carolina farmers can have. It will pay for itself in more profits and the satisfaction that comes from producing crops that are just a little better than those of a neighbor.

N. C. IRRIGATION WILL PAY

(Continued From Page 16)

can be expected—how often will there be a recurrence of the kind of growing season? The researchers find that the 280-pound boost of 1951 can be expected two out of every 10 years. The 90-pound per acre boost of 1952 can be expected seven out of 10 years. The 470-pound boost of 1953 can be expected two out of every 10 years.

Money, the price received for tobacco, is the primary concern of the tobacco grower. But the nicotine and sugar content of his cured leaf determines, in large measure, how much he receives. The amount of water tobacco gets has a direct bearing on its nicotine and sugar content.

In 1951 Oxford irrigated tobacco brought 58.9 cents per pound, while non-irrigated tobacco from the same station brought 46 cents. The figures for 1952 are 55.8 cents for irrigated and 52.5 cents for non-irrigated. In 1953 the irrigated tobacco brought 50.3 cents while the non-irrigated brought 45.1 cents.

Irrigation at Oxford in 1951 meant $295 per acre more net; in 1952, $69; in 1953, $265. Costs of irrigation each acre, including amortization and interest on equipment as well as its operation—but not including the cost of the water supply—totaled $38 in 1951, $28 in 1952, and $40 in 1953.

$125 An Acre Cost

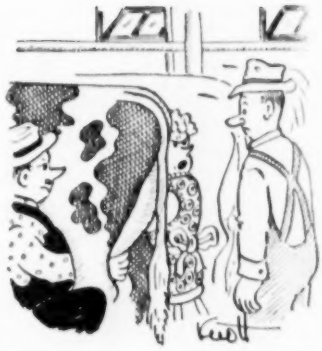
With an average purchase cost of approximately $125 per acre for irrigation equipment, the system at Oxford could have been paid for out of the profits it provided in either 1951 or 1953. Such seasons occur only every fifth year but it is still rather amazing in view of the fact that farmers are being advised to write off the cost of equipment with depreciation over a 10-year period. How soon a farmer will be able to write off the cost of his equipment depends upon the frequency of drought seasons in his own immediate area and the income tax adjustor. Six years is about as short a time as the tax adjustors will allow.

Do's and Don'ts

What should the farmer know before he invests his hard-earned cash in irrigation equipment? Ellis lists these do's and don'ts:

Don't try to design your own system. Let a trained irrigation engineer do it. Don't "jump in" and buy the first system you see. Do consider every field on your farm. Do learn exactly how much water you have available for irrigation and the distance it must be pumped. Do learn how fast each field will absorb water. Do learn each crop's requirements for water (too much is as bad as not enough). And do analyze your labor (the system must be moved about).

In closing it should be emphasized that all the various systems on the market today are good—if properly designed for the farm on which they will be used.



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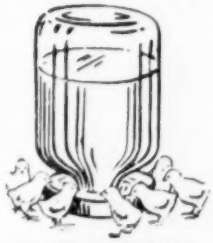

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REMEMBER FUTURE NEEDS

(Continued from page 6)

to see that the piping is correctly sized. More than one water system, adequate as far as pumping and storage capacity are concerned, has suffered because not enough thought was given to the right choice of piping. Sometimes cheaper piping of insufficient diameter is chosen with the mistaken idea that here is a good place to economize. Nothing could be further from the truth.

Piping System Hazards

What are some of the inconveniences—more often, real hazards—of an inadequate piping system? Think of those occasions when you may have been taking a shower in a friend's home. Perhaps someone turned on a cold water faucet somewhere else in the house, and suddenly your well-tempered shower became a scalding spray. This is the direct result of piping that is too small to maintain uniform pressure at a series of water outlets in the home during periods of simultaneous use.

Friction within a piping system automatically reduces the rate of water flow. If the water supply piping installed is too small, pressure cannot be maintained and the flow from one faucet is abruptly reduced or cut off entirely when another faucet is opened. This, of course, applies equally to hot and cold water supply lines.

Fire Protection Pressure Essential

The lack of sufficient water pressure due to water supply piping that is too small is most serious in the event of fire. To provide adequate fire protection, a farm property should have a pump capable of delivering a minimum of 500 gallons of water an hour from a number of strategically-located outlets. However, this protection will be of little avail if the system lacks sufficient pressure to force a stream of water to a burning rooftop while water is being simultaneously drawn off at some other point in the system.

It is a simple matter to avoid all such hazards by applying intelligent planning to water supply pipe sizing right from the start. What, then, can be considered a good rule-of-thumb to follow? Assuming that the pump is capable of delivering water to as many faucets as might be in use at any one time, the supply piping should be large enough so that there will be a drop of no more than five pounds in pressure between points of supply and delivery within the system.

A water system with a pump capable of delivering 500 gallons per hour will require one-inch piping for runs from 50 to 150 feet; 1-¼ inch piping for runs from 150 feet to 400 feet; 1-½ inch piping for runs from 400 feet to 900 feet. As will be seen from these figures, the longer the run, the greater the friction within the piping, and consequently the larger the pipe diameter required to maintain adequate pressure within the system.

Farm Animals Need A Lot of Water

Eventually, it is a good idea to pump water to troughs in livestock feeding lots, as well as watering devices in feeding pens and poultry brooders. Farm animals fatten up quicker on less feed when they have all the water they need to drink, and as often as they want it. Hens need plenty of drinking water to establish good laying records.

Around the farm property, there should be a number of well-placed hydrant outlets for convenience and adequate fire protection. In cold climates, the hydrants should be of the frost-proof type. In a frost-proof hydrant, a drain is provided underground below the frostline. When the faucet is shut, a valve opens to drain it and prevent the danger of freezing. When the faucet is turned on, the drain valve automatically closes.

A well-planned plumbing system for the farm home will include plenty of hot and cold water outlets to provide for the requirements of bathroom fixtures, the kitchen sink with possibly an automatic food waste disposer, a domestic water heater, water softener, automatic dishwasher and laundry equipment, even a back porch shower where the men can stop for a refreshing cleanup after a long, hard day in the fields. Another advantage the water system makes possible is central heating with a boiler and baseboards, convectors or radiators to distribute heat uniformly throughout the house.

Of course, it is not always possible to realize at the same time a short piping run and a convenient installation. It would be foolish, merely in the interests of saving a few dollars, to deliberately install a bathroom or powder room in an inconvenient location just to take advantage of a short piping run. This is not what is meant by being alert to the possibility of realizing economics in making a home plumbing installation.

May is National Water Systems Month, an excellent time to call on a water systems dealer to see about having a new system installed, or an older system enlarged and expanded to provide for better living, better health and increased profit from farming.

The Country Church With The Lord's Acre Plan

By REV. DUMONT CLARKE

Rural Life Sunday

The observance of a Sunday in May as Rural Life Sunday gives a most timely and valuable opportunity to exalt and to spiritualize the work of the farmer. Such an observance can also serve to provide further inspiration for the most intelligent and faithful work on the Lord's Acre projects which have been already dedicated; and for stimulating the setting apart of additional projects for church purposes.

The Lord's Acre Ingathering A Highlight of the Year

Pleasant Hill Baptist Church continued its use of the Lord's Acre program for the construction of a new building. Our ingathering service was one of the highlights of our church year. It brought a total of $581.22. A notable project was that of Mrs. J. D. Whiteside, who turned in $107 from her Sunday eggs. We plan to go forward in a larger way this year with this plan.—**Rev. Paul Benfield, Rutherfordton.**

Juniors Work With Elders For Building Fund

The past year Oak Hill Methodist Church has turned in for our building fund, through our combined efforts in the Lord's Acre work, $787.23.

Of this amount $94.65 was raised by the Junior Department, which had received a greatly-appreciated gift of $10 from a friend to help finance projects. The remainder was made by the various classes through their different projects. **Mrs. N. Irene Duckett, Candler.**

North Catawba Baptist Church, Burke County, received $173.10 from its Lord's Acre projects in 1953.—**J. E. Rhymer, treasurer.**

The Scripture-Prayer Plan Used Across the Nation

Many thousands of the Scripture-Prayer monthly verse-devotional folders for 1954 were distributed from coast to coast in December and subsequently.

The Scripture-Prayer plan applies the principles of memory to the prayerful use of great teachings of the Bible. It calls for the frequent repetition of a monthly verse, with its thoughtful, devotional application to life-situations. As the editorial on this page sets forth, this use of Scripture has proved a great blessing. This has been proved true in countless instances. It can be made the most valuable habit of life.

The use of the theme-hymn beginning, "Feed thou thy soul at morning light," which is printed annually on each devotional folder, and which is available in large, beautifully - colored chart form, helps to keep the purpose of using Scripture as a medium of prayer constantly in mind. A Christian worker in Ohio, writing with hearty appreciation of the use of the Scripture-Prayer plan in 1953, and ordering new supplies, writes: "The hymn was so beautiful. It was sung on the first Sunday of each month. The verse of the month was used in opening Sunday School."

The Scripture-Prayer material, including the verse-devotionals for each family, the booklet of instructions for the leader, and the theme-hymn charts may be obtained upon application to the Religious Department of Farmers Federation.

The total of the Lord's Acre proceeds of Adaville Baptist Church, Rutherford County, last year amounted to $311.38.—**O. H. Sinclair, Forest City.**

Scripture-Prayer Verse for May

Bear ye one another's burdens, and so fulfill the law of Christ. Galatians 6:2.

A WONDERFUL SCRIPTURE-PRAYER TESTIMONY

Heartening developments are occuring in the use of the Scripture-Prayer plan. An increasing number of pastors and laymen are appreciating the inexpressible values **in the habit of using Scripture selectively from memory as a medium of prayer.**

Rev. Dumont Clarke

Some time ago the following letter was received, telling how the use of the monthly Scripture selection in the Scripture-Prayer devotional folder for January of that year, had proved a great blessing in time of severe illness, both to the pastor and his family, and to the church congregation.

"The use of Scripture-Prayer has been a great blessing to us. Last year our congregation learned the verse, 'Commit thy way unto the Lord; trust also in Him; and He shall bring it to pass.' (Psalm 37:5). This was just before my husband, who is pastor of our church, went to the hospital for a very serious operation. My husband was losing his hearing. In fact, the doctors told him he was doing more lip-reading than hearing and that he would gradually lose all of his hearing.

"He had received a very definite call from God to consecrate his life to the ministry. And God was richly blessing his efforts. But this was surely a time of testing of our faith. We felt he couldn't continue in the ministry if he completely lost his hearing. The scripture, 'Commit thy way unto the Lord: trust also in Him; and He shall bring it to pass,' seemed to be especially for us. We both claimed that promise and many of our congregation claimed it for us, too. After the operation when my husband was so ill in the hospital we were surprised and thrilled when our verse was called to our attention very often. Other visiting ministers quoted it to us, our church members wrote it to us, and we claimed it in our own hearts. It was such a great comfort to us in those days and God abundantly fulfilled it for us. As a result of the operation and of God's miraculous power, my husband's hearing was restored to nearly normal again. How very grateful and thankful and happy we were. We realized that God had called us into His service and if we would 'Commit our way unto the Lord,' He would always 'bring it to pass.' The entire hospital experience was blessed by a very real consciousness of God's presence and blessing. Truly, 'the Lord hath done great things for us, whereof we are glad'."—Rev and Mrs. C. A. Nunery, North Pleasureville, Kentucky.

Hickory Knoll Methodist Church, Macon County, in two years has gained over $800 from its Lord's Acre corn projects. Rev. R. L. Poindexter, Vance Van Hook, Jim Young, Robert Ledbetter, committee.

The Waco Baptist Church, Cleveland County, is again using the Lord's Acre plan for building construction. Approximately 50,000 feet of lumber have already been given. Rev. B. S. Turner is pastor.

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